

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number  
**WO 2005/062259 A1**

(51) International Patent Classification<sup>7</sup>: **G06T 17/40**

(21) International Application Number:  
PCT/IB2004/052731

(22) International Filing Date: 9 December 2004 (09.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03104817.6 19 December 2003 (19.12.2003) EP

(71) Applicant (for DE only): **PHILIPS INTELLECTUAL  
PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-  
damm 94, 20099 Hamburg (DE).

(71) Applicant (for AE, AG, AL, AM, AT, AU, AZ, BA, BB, BE,  
BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CY, CZ,  
DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM,  
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,  
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,  
NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,

SE, SG, SK, SL, SY, SZ, TJ, TM, TN, TR, TT, TZ, UA, UG,  
UZ, VC, VN, YU, ZA, ZM, ZW only): **KONINKLIJKE  
PHILIPS ELECTRONICS N. V.** [NL/NL]; Groenewoud-  
seweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

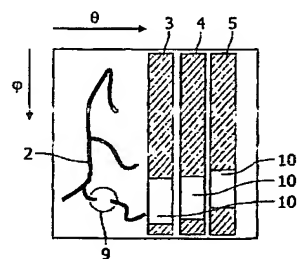
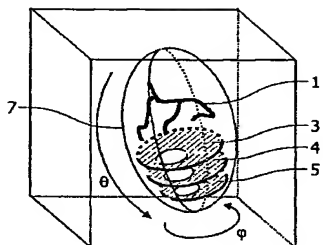
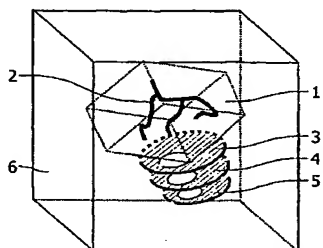
(75) Inventors/Applicants (for US only): **NETSCH, Thomas**  
[DE/DE]; c/o Philips Intellectual Property &, Standards  
GmbH Weissshausstr. 2, 52066 Aachen (DE). **YOUNG,  
Stewart** [GB/DE]; c/o Philips Intellectual Property &,  
Standards GmbH Weissshausstr. 2, 52066 Aachen (DE).

(74) Agents: **MEYER, Michael** et al.; Philips Intellectual  
Property &, Standards GmbH Weissshausstr. 2, 52066  
Aachen (DE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,

[Continued on next page]

(54) Title: METHOD FOR THE COMPUTER-ASSISTED VISUALIZATION OF DIAGNOSTIC IMAGE DATA



(57) Abstract: The invention relates to a method for the computer-assisted visualization of a three-dimensional anatomical object, wherein firstly two or more diagnostic image data records (1, 3, 4, 5) of the object are recorded. Thereafter, an imaging specification is defined for imaging the image data (1, 3, 4, 5) onto a two-dimensional display plane (8), wherein in order to define the imaging specification anatomical features (2) of the object are identified in at least one of the image data records (1). Finally, a combined two-dimensional representation is calculated by imaging the two or more image data records (1, 3, 4, 5) according to the previously defined imaging specification onto a common display plane (8).



MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*